UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

NOTICE OF ALLOWANCE AND FEE(S) DUE

24737

7590

05/14/2009

PHILIPS INTELLECTUAL PROPERTY & STANDARDS P.O. BOX 3001 BRIARCLIFF MANOR, NY 10510 EXAMINER

GHYKA, ALEXANDER G

ART UNIT PAPER NUMBER

2812

DATE MAILED: 05/14/2009

ĺ	APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
•	10/597,252	07/18/2006	John M. Shannon	GB 040024	8340

TITLE OF INVENTION: TRANSISTOR MANUFACTURE

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	08/14/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where

appropriate. All further indicated unless correcte maintenance fee notifica	correspondence including below or directed off tions.	ng the Patent, advance on nerwise in Block 1, by (a	rders and notification a) specifying a new co	of m	aintenance fees will condence address; a	l be ind/or	mailed to the current (b) indicating a sepa	correspo rate "FE	ondence address as E ADDRESS" for
CURRENT CORRESPOND		Fee(s paper	s) Transmittal. This rs. Each additional p	certif oaper,	can only be used for icate cannot be used for such as an assignment ling or transmission.	or any of	ther accompanying		
24737	7590 05/14	1/2009		nave			of Mailing or Transi	niccion	
P.O. BOX 3001	ELLECTUAL PRO IANOR, NY 10510	OPERTY & STAN	IDARDS	I her State addro trans	eby certify that this s Postal Service wit essed to the Mail Smitted to the USPTO	Fee(s h suf Stop O (57	b) Transmittal is being ficient postage for firs ISSUE FEE address 1) 273-2885, on the day	deposit t class n above, o te indic	ed with the United nail in an envelope or being facsimile ated below.
									(Depositor's name)
									(Signature)
									(Date)
APPLICATION NO.	ATION NO. FILING DATE FIR		FIRST NAMED INVEN	VENTOR ATTO		ATTO	ORNEY DOCKET NO.		IRMATION NO.
10/597,252	07/18/2006		John M. Shannon		•		GB 040024		8340
IITLE OF INVENTION	: TRANSISTOR MANU	JFACTURE	,					_	
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE D	UE	PREV. PAID ISSUE FEE		E FEE TOTAL FEE(S) DUE		DATE DUE
nonprovisional	NO	\$1510	\$300		\$0		\$1810		08/14/2009
EXAMINER		ART UNIT	CLASS-SUBCLASS	SS					
GHYKA, ALI	EXANDER G	2812	438-151000						
 Change of correspondence address or indication of "Fee Address" (37 CFR 1.363). Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required. 			or agents OR, alter (2) the name of a s registered attorney	of up to 3 registered patent attorneys alternatively, f a single firm (having as a member a rney or agent) and the names of up to tent attorneys or agents. If no name is					
PLEASE NOTE: Uni recordation as set fort (A) NAME OF ASSIG	less an assignee is ident h in 37 CFR 3.11. Comp GNEE	A TO BE PRINTED ON a signee below, no assignee below, no assignee beletion of this form is NO	data will appear on the Tasubstitute for filing (B) RESIDENCE: (C	ne pa g an a	tent. If an assignee sssignment. and STATE OR CO	UNT	RY)		
Please check the appropr	iate assignee category or	categories (will not be pr	rinted on the patent):	Ч	Individual 🖵 Corp	orati	on or other private gro	up entity	Government
4a. The following fee(s) are submitted: ☐ Issue Fee ☐ Publication Fee (No small entity discount permitted) ☐ Advance Order - # of Copies			4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above) A check is enclosed. Payment by credit card. Form PTO-2038 is attached. The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form).						
_ ~ .	tus (from status indicateds SMALL ENTITY state	· · · · · · · · · · · · · · · · · · ·	□ b. Applicant is no	long	or claiming SMALL	ENT	TITY status. See 37 CF	D 1 277	a)(2)
NOTE: The Issue Fee an	d Publication Fee (if req	uired) will not be accepte tes Patent and Trademark	d from anyone other th						
Authorized Signature					Date				
Typed or printed name									
This collection of inform an application. Confident submitting the completed this form and/or suggest Box 1450, Alexandria, V Alexandria, Virginia 223	tiality is governed by 35 d application form to the ions for reducing this bu Virginia 22313-1450. DC	CFR 1.311. The informatic U.S.C. 122 and 37 CFR USPTO. Time will vary rden, should be sent to th D NOT SEND FEES OR	on is required to obtain 1.14. This collection is depending upon the i e Chief Information O COMPLETED FORM	or restindiving Topics	etain a benefit by the mated to take 12 mi dual case. Any com r, U.S. Patent and Tr o THIS ADDRESS.	publ nutes iment radent SENI	ic which is to file (and to complete, includin s on the amount of tir nark Office, U.S. Depa D TO: Commissioner t	by the Ug gather, ne you rurtment of or Paten	JSPTO to process) ing, preparing, and equire to complete of Commerce, P.O. tts, P.O. Box 1450,

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.



United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450

P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE FIRST NAMED INVENTOR		ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/597,252	07/18/2006	John M. Shannon	GB 040024	8340		
24737 75	24737 7590 05/14/2009			IINER		
PHILIPS INTEL	LECTUAL PROPER	GHYKA, ALEXANDER G				
P.O. BOX 3001		ART UNIT	PAPER NUMBER			
BRIARCLIFF MA	NOR, NY 10510		2812			
		DATE MAILED: 05/14/2009				

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 350 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 350 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)			
	10/597,252	SHANNON ET AL.			
Notice of Allowability	Examiner	Art Unit			
	ALEXANDER G. GHYKA	2812			
The MAILING DATE of this communication appeal claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this ap or other appropriate communication IGHTS. This application is subject t	plication. If not included n will be mailed in due course. THIS			
2. The allowed claim(s) is/are <u>1,2,4 and 6-12</u> .					
 Acknowledgment is made of a claim for foreign priority ur a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority do International Bureau (PCT Rule 17.2(a)). * Certified copies not received:	e been received. e been received in Application No				
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		complying with the requirements			
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give					
5. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.				
(a) including changes required by the Notice of Draftspers	son's Patent Drawing Review (PTO	-948) attached			
1) 🔲 hereto or 2) 🔲 to Paper No./Mail Date	,				
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date	s Amendment / Comment or in the (Office action of			
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t					
 DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT 					
Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)	5. ☐ Notice of Informal F6. ☐ Interview Summary	(PTO-413),			
Paper No./Mail Date Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date Examiner's Amendment/Comment					
 Examiner's Comment Regarding Requirement for Deposit of Biological Material 	8. 🛛 Examiner's Statem	ent of Reasons for Allowance			
/Alexander G. Ghyka/ Primary Examiner, Art Unit 2812					

DETAILED ACTION

Allowable Subject Matter

Claims 1-2, 4 and 6-12 are allowed.

The following is an examiner's statement of reasons for allowance: The closest prior art known to the Examiner is listed on the PTO 892 form of record. Hebiguchi et al disclose providing a transparent substrate 41 (column 6, lines 20-25 and Figure 1); depositing a gate layer and patterning the gate 42; depositing a gate insulating layer 43; depositing a thin film semiconductor layer 44; and depositing a source layer 45 defining a barrier with the semiconductor layer. See Figures 1 and 2, and column 6, lines 25-65. As discussed in the previous Office action, the cited prior art does not anticipate or make obvious, *inter alia*, steps e) – j) of Claim 1.

.Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to ALEXANDER G. GHYKA whose telephone number is (571)272-1669. The examiner can normally be reached on Monday through Friday 9 to 5.

Application/Control Number: 10/597,252 Page 3

Art Unit: 2812

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Charles Garber can be reached on (571) 272-2194. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

AGG May 11, 2009

/Alexander G. Ghyka/ Primary Examiner, Art Unit 2812